Manuscripts Transfer to: Medical 1-17-63

CONTENTS

PART 1. APRIL

PAGE

MATHER, K., and HARRISON, B. J. (Hertford). The manifold effect of selection 1

WIGAN, L. G. (Hertford). The distribution of polygenic activity on the X-chromosome of *Drosophila melanogaster* 53

DOWDESWELL, W. H., FISHER, R. A., and FORD, E. B. (Tiverton, Cambridge and Oxford). The quantitative study of populations in the Lepidoptera. II. *Maniola jurtina* L. 67

CRANE, M. B., and LEWIS, D. (Hertford). Genetical studies in pears. V. Vegetative and fruit characters 85

CRANE, M. B., and THOMAS, P. T. (Hertford and Aberystwyth). Reproductive versatility in *Rubus*. III. Raspberry-blackberry hybrids (with an appendix by C. D. Darlington) 99

MCAULAY, A. L., FORD, J. M., and DOBIE, D. L. (Hobart). Production of lethal mutations in the fungus *Chætomium globosum* by monochromatic ultra-violet irradiation 109

BRITISH ASSOCIATION 1948. SYMPOSIA ON GENETICS.

(*a*) Human blood groups 121

(*b*) Inbreeding and hybrid vigour in livestock and crop improvement . 123

(*c*) Genetical structure of plant populations 126

GENETICAL SOCIETY OF GREAT BRITAIN : Abstracts of Papers 129

PART 2. AUGUST

MATHER, K., and HARRISON, B. J. (Hertford). The manifold effect of selection (Part II) 131

FRANKEL, O. H. (Christchurch). A self-propagating structural change in *Triticum*. I. Duplication and crossing-over 163

BERGE, S. (Vollebekk). Inheritance of dun, brown and brindle colour in cattle 195

RACE, R. R., SANGER, RUTH, LAWLER, SYLVIA D., and BERTINSHAW, DOREEN (London). The inheritance of the MNS blood groups : A second series of families 205

FISHER, R. A., and BAILEY, NORMAN T. J. (Cambridge). The estimation of linkage with differential viability

FISHER, R. A. (Cambridge). I. Note on the test of significance for differential viability in frequency data from a complete three-point test 215

PAGE

BAILEY, NORMAN T. J. (Cambridge). II. The use of the product formula for the estimation of linkage in intercrosses when differential viability is present 220

BAILEY, NORMAN T. J. (Cambridge). III. A method of allowing for differential viability in estimating linkage from backcross matings in coupling only or repulsion only 225

FISHER, R. A. (Cambridge). A preliminary linkage test with *agouti* and *undulated* mice 229

BHAT, N. R. (Cambridge). A dominant mutant mosaic house mouse . . 243

REVIEWS :

FORD, E. B. Genetics and cancer 249

CRANE, M. B. The Moscow Conference on Genetics 252

GENETICAL SOCIETY OF GREAT BRITAIN : Abstracts of Papers 262

PART 3. DECEMBER

NUTMAN, P. S. (Rothamsted). Nuclear and cytoplasmic inheritance of resistance to infection by nodule bacteria in red clover 263

FRANKEL, O. H. (Christchurch, New Zealand). A self-propagating change in *Triticum*. II. The reproductive cycle 293

LA COUR, L. F. (Hertford). Nuclear differentiation in the pollen grain . 319

LEWIS, D. (Hertford). Structure of the incompatibility gene. II. Induced mutation rate 339

OWEN, A. R. G. (Cambridge). A possible interpretation of the apparent interference across the centromere found by Callan and Montalenti in *Culex pipiens* 357

MOFFETT, A. A., and HURCOMBE, R. (Pietermaritzburg and Hertford). Chromosome numbers of South African grasses 369

REVIEW :

BAILEY, NORMAN T. J. Biometrical genetics 375

GENETICAL SOCIETY OF GREAT BRITAIN : Titles and summaries of demonstrations 377

INDEX 387